

ABSTRACT OF THE DISCLOSURE

**DETECTION METHOD FOR MONITORING BETA TUBULIN ISOTYPE  
SPECIFIC MODIFICATION**

This invention relates to monoclonal antibodies that recognize modified  $\beta$ -tubulin isotypes, methods of using such antibodies to detect modified  $\beta$ -tubulin isotypes, methods of using such antibodies to monitor  $\beta$ -tubulin modifying agents administered to a patient, methods of using such antibodies to isolate modified  $\beta$ -tubulin, and methods of detecting the anti-modified  $\beta$ -tubulin antibodies.

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